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1 Graphical query interfaces for semistructured data: the QURSED system
Michalis Petropoulos, Yannis Papakonstantinou, Vasilis Vassalos
May 2005   **Transactions on Internet Technology (TOIT)** , Volume 5 Issue 2
Publisher: ACM
Full text available: 📄 Pdf (6.88 MB)   Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 99, Citation Count: 3

We describe the QURSED system for the declarative specification and automatic generation of Web-based query forms and reports (*QFR*s) for semistructured XML data. In QURSED, a *QFR* is formally described by its query set specification (*QSS*) ...

2 JTL: the Java tools language
Tal Cohen, Joseph (Yossi) Gil, Itay Maman
October 2006   **OOPSLA '06:** Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications
Publisher: ACM
Full text available: 📄 Pdf (386.63 KB)   Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 122, Citation Count: 5

We present an overview of JTL (the Java Tools Language, pronounced "Gee-tel"), a novel language for querying JAVA [8] programs. JTL was designed to serve the development of source code software tools for JAVA, and as a small language which to aid programming ...

Keywords: declarative programming, reverse engineering

Also published in:
October 2006 **SIGPLAN Notices** Volume 41 Issue 10

3 The BEA streaming XQuery processor

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan

September 2004

The VLDB Journal — The International Journal on Very Large Data Bases , Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (328.94 KB)

Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 51, Citation Count: 19

This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, ...

4 Efficient algorithms for processing XPath queries

Georg Gottlob, Christoph Koch, Reinhard Pichler

June 2005

Transactions on Database Systems (TODS) , Volume 30 Issue 2

Publisher: ACM

Full text available: Pdf (721.61 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 207, Citation Count: 24

Our experimental analysis of several popular XPath processors reveals a striking fact: Query evaluation in each of the systems requires time exponential in the size of queries in the worst case. We show that XPath can be processed much more efficiently, ...

Keywords: Efficient Algorithms, XML, XPath

5 TIMBER: A native XML database

H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Paparizos, J. M. Patel, D. Srivastava, N. Wiwatwattana, Y. Wu, C. Yu

December 2002

The VLDB Journal — The International Journal on Very Large Data Bases , Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (268.39 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 264, Citation Count: 82

This paper describes the overall design and architecture of the Timber XML database system currently being implemented at the University of Michigan. The system is based upon a bulk algebra for manipulating trees, and natively stores XML. New access ...

Keywords: Algebra, Document management, Hierarchical, Query processing, Semi-structured

6 Relations as an abstraction for BDD-based program analysis

Ondřej Lhoták, Laurie Hendren

July 2008 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 30 Issue 4

Publisher: ACM

Full text available: Pdf (2.82 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 173,   Citation Count: 0

In this article we present Jedd, a language extension to Java that supports a convenient way of programming with Binary Decision Diagrams (BDDs). The Jedd language abstracts BDDs as database-style relations and operations on relations, and provides static ...

Keywords: Binary decision diagrams, Boolean formula satisfiability, Java, language design, physical domain assignment, points-to analysis, program analysis, relations

7 Communications of the ACM: Volume 52 Issue 4

April 2009   Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.58 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 5950,   Downloads (12 Months): 5950,   Citation Count: 0

8 Query optimization in XML structured-document databases

Dunren Che, Karl Aberer, Tamer Özsu

September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 15 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (687.23 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 37,   Downloads (12 Months): 250,   Citation Count: 6

While the information published in the form of XML-compliant documents keeps fast mounting up, efficient and effective query processing and optimization for XML have now become more important than ever. This article reports our recent advances in XML ...

Keywords: Deterministic query optimization, Query transformation, XML database, XML query optimization, XML query processing

9 System RX: one part relational, one part XML

Kevin Beyer, Roberta J. Cochrane, Vanja Josifovski, Jim Kleewein, George Lapis, Guy Lohman, Bob Lyle, Fatma Özcan, Hamid Pirahesh, Normen Seemann, Tuong Truong, Bert Van der Linden, Brian Vickery, Chun Zhang

June 2005   **SIGMOD '05:** Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (426.08 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 30,   Downloads (12 Months): 209,   Citation Count: 33

This paper describes the overall architecture and design aspects of a hybrid relational and XML database system called System RX. We believe that such a system is fundamental in the evolution of enterprise data management solutions: XML and relational ...

10 From tree patterns to generalized tree patterns: on efficient evaluation of XQuery

Zhimin Chen, H. V. Jagadish, Laks V. S. Lakshmanan, Stelios Paparizos

September 2003   **VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29** , Volume 29

Publisher: VLDB Endowment

Full text available: Pdf (279.01 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 33,   Citation Count: 10

XQuery is the de facto standard XML query language, and it is important to have efficient query evaluation techniques available for it. A core operation in the evaluation of XQuery is the finding of matches for specified tree patterns, and there has ...

11 Accelerating XPath evaluation in any RDBMS

Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004   **Transactions on Database Systems (TODS)** , Volume 29 Issue 1

Publisher: ACM

Full text available: Pdf (781.01 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 197,   Citation Count: 19

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support *all* XPath axes (including ...

Keywords: Main-memory databases, XML, XML indexing, XPath

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